PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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PCT

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

03 JUL 2000

Applicant's or agent's file reference

SIEB012/00WO

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority Date (day/month/year)

PCT/US99/04581

03 MARCH 1999

03 MARCH 1998

Applicant

SIEBEL SYSTEMS, INC.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks

Box PCT Washington, D.C. 20231

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Form PCT/IPEA/416 (July 1992) *

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	1			
SIEB012/00WO	FOR FURTHER ACTION	CTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No.	International filing date (day/n	month/year) Priority date (day/month/year)		
PCT/US99/04581	03 MARCH 1999	03 MARCH 1998		
International Patent Classification (IPC) IPC(7): GO6P 09/445 and US Cl.: 7		PC		
Applicant SIEBEL SYSTEMS, INC.				
Examining Authority and is This REPORT consists of a This report is also accompled and are the	transmitted to the applicant total of sheets. panied by ANNEXES, i.e., shee basis for this report and/or shion 607 of the Administrative	eets of the description, claims and/or drawings which have heets containing rectifications made before this Authority.		
3. This report contains indications relating to the following items: I X Basis of the report II Priority III Non-establishment of report with regard to novelty, inventive step or industrial applicability IV Lack of unity of invention V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application				
Date of submission of the demand Date of completion of this report				
01 OCTOBER 1999 12 JUNE 2000				
Name and mailing address of the IPEA/	l l	horized officer CODIII ' Year		
Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231		TARIQ R. HAFIZ JUGENES JOGAN		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/04581

I. 1	Basis of th	e report		·	
1 137	ith menand to	the elements of the interna	ational ambigation:*		
1. (*)	_ `	mational application as		•	
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	the langu	uage of publication of t	rnished for the purposes of international search the international application (under Rule 48.3(b hished for the purposes of international preliminary e)).	
	reliminary	examination was carried	r amino acid sequence disclosed in the internation out on the basis of the sequence listing:	nal application, the international	
<u> </u>	i containe	d in the international a	pplication in printed form.		
	filed tog	ether with the internati	onal application in computer readable form.		
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The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.					
	_	ment that the information	recorded in computer readable form is identical to	the writen sequence listing has	
4. X	The am	endments have resulted	in the cancellation of:		
	X th	e description, pages	NONE		
		e claims, Nos.	11-15		
		e drawings, sheets/ fig			
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5. <u>X</u>		-	some of) the amendments had not been made, since t	ney have been considered to go	
in	placement si this report	heets which have been furni	indicated in the Supplemental Box (Rule 70.2(c)).** ished to the receiving Office in response to an invitation are not annexed to this report since they do not con	under Article 14 are referred to ntain amendments (Rules 70.16	
	d 70.17). sy replacem	ent sheet containing such	amendments must be referred to under item 1 and	annexed to this report.	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
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V.	. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial ap	onlicability:
	citations and explanations supporting such statement	· F ,

1.	statement			
	Novelty (N)	Claims	2-5 and 7-10	YES
		Claims	1 and 6	NO
	Inventive Step (IS)	Claims	NONE	YES
		Claims	1-10	NO
	Industrial Applicability (IA)	Claims	1-10	YES
		Claims	NONE	NO

2. citations and explanations (Rule 70.7)

Claims 1 and 6 lack novelty under PCT Article 33(2) as being anticipated by Cheng et al., EP 0 811 942 A2. Cheng et al. clearly teaches of setting minimum and maximum versions of installed software for clients; defining contents of software version upgrade kits from the minimum and maximum versions of the installed software, wherein the upgrade kits comprise of files, actions, and an upgrade wizard to upgrade one or more software components from one version to another version; and writing the contents of the software version upgrade kits to a data base as a table of contents, wherein the table shows the contents of an upgrade kit and components are required by a corresponding upgrade (see Figures 13(a)-13(e) and page 13).

Cheng et al. also teach of instantiating an application on the client computer; verifying that currently running software components are up-to-date; interrogating installed software on the client to determine the installed versions on the client with respect to up-to-date components; and comparing the table of contents of software version upgrade kits to software installed on the client to determine software version upgrade kits needed to be invoked on the client to effect upgrades from a currently installed software version to a required software version (see pages 6 and 10).

Cheng et al. further discloses building the software upgrade kits from the table of contents; downloading copies of the software upgrade kits from the server to a server to a client to be upgraded; creating a backup of local files before applying the upgrade(s); invoking an upgrade wizard to upgrade software on the client, wherein the upgrade wizard reads a list of upgrade kit items to be performed for the software version upgrade from a driver file an a list of upgrades to be run and the state of each upgrade from a state file; and after upgrading the software on the client, restarting the original program that invoked the upgrade (see pages 6, 11 and 17).

Claims 2 and 7 lack an inventive step under PCT Article 33(3) as being obvious over Cheng et al., EP 0 811 942 A2, in view of Iwamoto et al, US Patent No. 5,715,462. Cheng et al. teaches of upgrading a software system (see claim 1 above) and (Continued on Supplemental Sheet.)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

- I. BASIS OF REPORT:
- (Some) amendments are considered to go beyond the disclosure as filed: NONE

V. 2. REASONED STATEMENTS - CITATIONS AND EXPLANATIONS (Continued):

tracking upgrades (see page 17), but fails to explicitly disclose a method of rolling changes in the event of an error.

Iwamoto et al. discloses tracking the progress of the upgrade, rolling-back changes when an error occurs, instantiating the backed-up local files and restarting the upgrade from a save point (see Figure 4 and column 5, lines 18-55, rolling back of changes in the event of an error).

It would have been obvious to one of ordinary skill in the art at the time of the invention to add error recovery to the installation system of Cheng et al. to provide a means for reverting a software package in the event that a upgrade was unsuccessful.

Claims 3 and 8 lack an inventive step under PCT Article 33(3) as being obvious over Cheng et al., EP 0 811 942 A2, in view of Kirouac et al, US Patent No. 5,155,847. Cheng et al. teaches of a software upgrading system (see claim 1 above), but fails to explicitly address a monitoring the progress of a software upgrade.

Kirouac et al. discloses a method of monitoring the progress of an upgrade on a client from a server (see Figure 2(b) and Column 9, lines 34-63, server verification functions).

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Cheng et al.'s method of upgrading with Kirouac et al.'s method of monitoring the server side installation to maintain an efficient verification means which substantiates the progress of installation.

Claims 4, 5, 9 and 10 lack an inventive step under PCT Article 33(3) as being obvious over Cheng et al., EP 0 811 942 A2, in view of Siebel Systems, "Siebel Systems: Siebel announces production shipment of Siebel Enterprise Applications Version 3.0". Cheng et al teaches of a software upgrading system (see claim 1 above), but fails to explicitly address downloading upgrade kits and upgrading databases.

As per claims 4 and 9, Siebel Systems discloses downloading one or more upgrade kits to a client during docking, before the client requires the upgrade and installing the upgrade subsequent to docking (see page 1, automating remote software upgrades through the use of "Siebel Anywhere"). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Cheng et al.'s method of upgrading with Siebel Systems's method for allowing the downloading of upgrading kits during docking for subsequent upgrading, to expand upgrade capabilities to include more remote accessabilty.

As per claims 5 and 10, Siebel Systems discloses a program code for upgrading database schema resident on the client computer (see page 2). It would have been obvious to one of ordinary skill at the time of the invention to combine Cheng et al.'s method of upgrading with Siebel Systems's method for upgrading database schema, to further expand upgrade capabilities and provide a more efficient tool.

Claims 1-10 meet the criteria set out in PCT Article 33(4)	, because the ability to upgrade	software on client computers	from a
server computer has use in the network computer field.	•	•	

	NEW	CITATION	IS	
NONE				

FEAUS 0 7 MAR 2000

We claim:

1. A method of distributing and installing software upgrades on a client computer in a client server system comprising:

setting minimum and maximum versions of installed software for clients;

defining contents of software version upgrade kits from the minimum and maximum versions of the installed software, the software version upgrade kits comprising files, actions, and an upgrade wizard to upgrade one or more software components from one version to another version;

writing the contents of the software version upgrade kits to a database as a table of contents, said table of contents showing the contents of an upgrade kit and which software components are required by a corresponding upgrade;

instantiating an application on the client computer;

verifying that software components for the currently running program are up-to-date;

if any software component in the currently running program is not up-to-date, interrogating other installed software on the client to determine the installed versions on the client;

comparing the table of contents of software version upgrade kits to software installed on the client to determine software version upgrade kits needed to be invoked on the client to effect upgrades from a currently installed software version to a required software version;

building the software upgrade kits from the table of contents;

downloading copies of the software upgrade kits from the server to a client to be upgraded;

creating a backup of local files before applying the upgrade;

invoking an upgrade wizard to upgrade software on the client, said upgrade wizard reading a list of upgrade kit items to be performed for the software version upgrade from a driver file and a list of upgrades to be run and the state of each upgrade from a state file, and performing the upgrades; and

- after upgrading the software on the client, restarting the original program that invoked the upgrade.
 - 2. The method of claim 1 tracking the progress of an upgrade, rolling back changes when an error occurs, instantiating the backed up local files, and restarting the upgrade from a save point.
- 10 3. The method of claim 1 comprising monitoring the progress of a software upgrade on a client from a server.
 - 4. The method of claim 1 downloading one or more upgrade kits to a client before the client requires the upgrade.
- 5. The method of claim 1 wherein the software being upgraded is database management software, and the upgrades further include database schema changes.
 - 6. A client-server computer system comprising a server computer and at least one client computer periodically docking with the server computer, said server computer including a database management system and a database thereon, and wherein said database is partially replicated from the server computer to the client computer during docking, said client-server system being configured to apply upgrades to software resident on the client computer from the server computer, said client-server computer system further being configured to:

set minimum and maximum versions of installed software for the client computer;

define contents of software version upgrade kits from the minimum and maximum versions of the installed software, the software version upgrade kits comprising files, actions, and an upgrade wizard to upgrade one or more software components from one version to another version;

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write the contents of the software version upgrade kits to a database as a table of contents, said table of contents showing the contents of an upgrade kit and which software components are required by a corresponding upgrade;

instantiating a software program on the client;

5 verifying that software components for the currently running program are upto-date;

if any software component in the currently running program is not up-to-date, interrogating other installed software on the client to determine the installed versions on the client;

comparing the table of contents of the software version upgrade kits to the software installed on the client computer to determine software version upgrade kits needed to be downloaded from the server computer to the client computer and invoked on the client computer to effect upgrades from a currently installed software version to a required software version;

building the software upgrade kits from the table of contents;

downloading copies of the software upgrade kits from the server computer to the client computer;

creating on the client computer a backup of local files thereon before applying the upgrade;

invoking the upgrade wizard to upgrade software on the client, said upgrade wizard reading a list of upgrade kit items to be performed for the software version upgrade from a driver file and a list of upgrades to be run and the state of each upgrade from a state file and performing the upgrades; and

restarting the original software program that invoked the upgrade.

7. The client-server computer system of claim 6 further configured to track the progress of an upgrade, roll back changes when an error occurs, instantiate the backed up local files, and restart the upgrade from a save point.

38.

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- 8. The client-server computer system of claim 6 further configured to monitor the progress of a software upgrade on a client from a server.
- 9. The client-server computer system of claim 6 further configured to download one or more upgrade kits to a client during docking and before the client requires the upgrade, and install the upgrade subsequent to docking.
- 10. The client-server computer system of claim 6 further configured to apply upgrades to software resident on the client computer from the server computer and upgrade database schema resident on the client computer.